

IN THE CLAIMS

1. (Currently amended) A metallic conductor for a low-tension electrical conductor ~~an electric and/or communication cable~~, the metallic conductor comprising an assembly of flexible wires (22); ~~characterized in that~~ wherein the conductor is arranged in (21) ~~assumes~~ a predetermined polygonal cross-section ~~having comprising~~ comprising one curved side, and the diameter of each wire is less than or equal to 0.61 mm.

2. (Currently amended) A metallic conductor according to Claim 1, wherein the polygonal cross-section ~~has~~ comprises at least one straight side.

3. (Canceled)

4. (Previously presented) A metallic conductor according to Claim 3, wherein the polygonal cross-section is a circular sector.

5. (Canceled)

6. (Currently amended) A metallic conductor according to Claim 1, in which the conductor (21) is surrounded by a layer of an insulating material.

7. (Previously presented) A metallic conductor according to Claim 6, in which the layer of insulating material is thermoplastic and/or thermosetting, such as polyethylene, polyester,

fluorinated polymer, polyolefin, polyamide, polyimide, polyurethane, polyvinyl chloride, thermoplastic elastomer, ethylene-propylene, polychloroprene or silicone rubber, as well as their compounds and derivatives.

8. (Currently amended) ~~An electric and/or communication~~ A low-tension cable comprising a plurality of conductors (21) according to claim 1, each of the conductors being electrically insulated from one another, and grouped together by a cabling process under a covering or a common binding element, ~~characterized in that~~ wherein the conductors (21) assume a predetermined polygonal arrangement ~~having~~ comprising a curved side, and the diameter of each wire is less than or equal to 0.61mm.

9. (Previously presented) A cable according to Claim 8, wherein the predetermined polygonal arrangement includes at least one straight side.

10. (Previously presented) A cable according to Claim 9, wherein the predetermined polygonal arrangement includes a combination of at least one straight side and one curved side.

11. (Previously presented) A cable according to Claim 8, wherein the predetermined polygonal arrangement is a circle.

12. (Previously presented) A cable according to Claim 8, wherein the predetermined

polygonal arrangement is a rectangle.

13. (Currently amended) A cable according to Claim 11, wherein the cable ~~(23)~~ comprises conductors ~~(21)~~ of different polygonal cross-sections.

14. (Previously presented) A cable according to Claim 8, wherein the predetermined polygonal arrangement is surrounded by at least one layer of a protective material.

15. (Previously presented) A cable according to Claim 14, wherein the layer of protective material is a metallic protective material.

16. (Previously presented) A cable according to Claim 15, wherein the layer of protective material is a thermoplastic and/or thermosetting polymeric protective material.

17. (Previously presented) A cable according to Claim 14, wherein the layer of protective material is a textile material applied as a protective belt.

18. (Previously presented) A cable according to Claim 15, wherein the predetermined polygonal arrangement is surrounded by a combination of layers of protective material.

19. (Currently amended) A method of manufacturing a metallic conductor ~~(21)~~ according to Claim 1, characterized in that the method comprises the steps of:

deforming, using a mechanical means of deformation, a metallic conductor (21) that comprises an assembly of round metallic wires (22) and arranging the wires in a predetermined polygonal cross-section comprising one curved side, the diameter of each wire being less than or equal to 0.61 mm to achieve the predetermined polygonal cross-section, and

extruding, using an extrusion means, the metallic conductor (21) obtained in the preceding operation.

20. (Currently amended) A cable according to Claim 12, wherein the cable (23) comprises conductors (21) of different polygonal cross-sections.

21. (Previously presented) A cable according to claim 8, wherein the cable is sufficiently flexible to meet classes V and VI of IEC-60228 standard.

22. (Previously presented) A cable according to claim 8, wherein the cable is sufficiently flexible to permit coiling of the cable on a spool.

23. (Currently amended) A flexible electric and/or communication cable consisting of:

a plurality of metallic conductors; each of the conductors comprising a plurality of wires having a diameter of less than or equal to 0.61 mm and an insulating layer enveloping the wires; wherein the wires and the insulating layer are constructed and arranged to form a conductor having a predetermined polygonal cross-section having a curved side; and

a flexible protective sheath covering the plurality of metallic conductors.

24. (New) A flexible electric and/or communication cable consisting of:

- a plurality of metallic conductors; each of the conductors comprising a plurality of wires having diameters up to 0.61mm for making the cable flexible;
- insulating layers respectively enveloping the conductors; and
- a flexible protective sheath covering the plurality of metallic conductors;

wherein the wires and insulating layers have a ploygonal cross-section having a curved side.

IN THE DRAWING

Please replace the drawings on file with the enclosed replacement drawing sheet of

Fig. 1.